

DERWENT-ACC-NO: 1995-195089

DERWENT-WEEK: 200036

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TITLE: Multi layer needle bonded no woven -  
has a carrier layer of bi-component fibres needle bonded  
to staple fibre layers

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PATENT-ASSIGNEE: MGF GUTSCHE & CO GMBH BETRIEBS KG[MGFGN]

PRIORITY-DATA: 1993DE-4339709 (November 22, 1993)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
DE 4339709 A1		May 24, 1995	N/A
004	D04H 003/00		
ES 2144602 T3		June 16, 2000	N/A
000	D04H 013/00		
WO 9514803 A1		June 1, 1995	G
015	D04H 013/00		
EP 730682 A1		September 11, 1996	G
000	D04H 013/00		
EP 730682 B1		February 9, 2000	G
000	D04H 013/00		
DE 59409147 G		March 16, 2000	N/A
000	D04H 013/00		

DESIGNATED-STATES: JP US AT BE CH DE DK ES FR GB GR IE IT  
LU MC NL PT SE AT BE  
CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE AT BE CH DE DK  
ES FR GB GR IE IT  
LI LU MC NL PT SE

CITED-DOCUMENTS: DE 2842837; GB 2278371 ; WO 9417234

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
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APPL-DATE		
DE 4339709A1	N/A	
1993DE-4339709	November 22, 1993	
ES 2144602T3	N/A	
1995EP-0903268	November 22, 1994	
ES 2144602T3	Based on	EP 730682
N/A		
WO 9514803A1	N/A	
1994WO-EP03863	November 22, 1994	
EP 730682A1	N/A	
1994WO-EP03863	November 22, 1994	
EP 730682A1	N/A	
1995EP-0903268	November 22, 1994	
EP 730682A1	Based on	WO 9514803
N/A		
EP 730682B1	N/A	
1994WO-EP03863	November 22, 1994	
EP 730682B1	N/A	
1995EP-0903268	November 22, 1994	
EP 730682B1	Based on	WO 9514803
N/A		
DE 59409147G	N/A	
1994DE-0509147	November 22, 1994	
DE 59409147G	N/A	
1994WO-EP03863	November 22, 1994	
DE 59409147G	N/A	
1995EP-0903268	November 22, 1994	
DE 59409147G	Based on	EP 730682
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DE 59409147G	Based on	WO 9514803
N/A		
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B32B005/24,		
B32B005/26, B65G015/34, D04H003/00, D04H003/10,		
D04H003/12,		
D04H013/00		

ABSTRACTED-PUB-NO: DE 4339709A

# BASIC-ABSTRACT:

The multi-layer needle-bonded non-woven or felting material has a carrier of high tensile strength and at least one layer of staple fibres needle bonded to it. The carrier (3) is prepared, before bonding with the

staple fibre layers  
(1,2), as a drawn staple fibre non-woven of bicomponent  
fibres. After needle  
bonding, the material is heated with simultaneous pressing.

USE - The multi-layer material is used for conveyor belting  
or as a filter  
medium.

ADVANTAGE - The material has a low stretch and a high shear  
strength.

ABSTRACTED-PUB-NO: EP 730682B

EQUIVALENT-ABSTRACTS:

The multi-layer needle-bonded non-woven or felting material  
has a carrier of  
high tensile strength and at least one layer of staple  
fibres needle bonded to  
it. The carrier (3) is prepared, before bonding with the  
staple fibre layers  
(1,2), as a drawn staple fibre non-woven of bicomponent  
fibres. After needle  
bonding, the material is heated with simultaneous pressing.

USE - The multi-layer material is used for conveyor belting  
or as a filter  
medium.

ADVANTAGE - The material has a low stretch and a high shear  
strength.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: MULTI LAYER NEEDLE BOND NO WOVEN CARRY LAYER  
BI COMPONENT FIBRE  
NEEDLE BOND STAPLE FIBRE LAYER

DERWENT-CLASS: F04 J01 P73 Q35

CPI-CODES: F01-E01; F01-E09; F02-C01; F02-C02D; F04-E05;  
F04-E07; J01-H;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-090338

Non-CPI Secondary Accession Numbers: N1995-153134